

# **Marine Coatings**

**Table I**  
**Identification of Performance Standards**  
**Source Category: Marine Coatings**

Regulated Component	Pollutant	Rule/Measure/Date									
		Ventura County APCD 74.24 (9/10/96 )		BAAQMD 8-43 (12/20/95)		SCAQMD 1106 (1/13/95)		San Diego County APCD 67.18 (5/15/96)		NESHAP 60 FR 64330 (12/15/95)	
		Performance Standard									
General Coatings	VOC										
Baked		x	275 g/l	x	275 g/l	x	275 g/l	x	275 g/l		340 g/l
Air Dried			340 g/l		340 g/l		340 g/l		340 g/l		
Air Flask		x	340 g/l					x	340 g/l	x	340 g/l
Antenna		x	340 g/l				530 g/l	x	340 g/l		530 g/l
Antifoulants		x	400 g/l	x	400 g/l	x	400 g/l	x	400 g/l	x	400 g/l
Aluminum Substrate Antifoulants		x	560 g/l								
Heat Resistant											
Baked		x	360 g/l	x	360 g/l	x	360 g/l	x	360 g/l		420 g/l
Air Dried			420 g/l		420 g/l		420 g/l		420 g/l		

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		Performance Standard									
High Gloss											
Baked			360 g/l	x	275 g/l	x	275 g/l		360 g/l		420 g/l
Air Dried			420 g/l		340 g/l		340 g/l		420 g/l		
Finish Primer								x	600 g/l		
Mist Coating								x	610 g/l	x	610 g/l
Impregnating Sealer								x	700 g/l		
High Temperature		x	500 g/l	x	500 g/l	x	500 g/l	x	500 g/l	x	500 g/l
Low Activation Interior		x	420 g/l	x	420 g/l	x	420 g/l	x	420 g/l		
Military Exterior		x	340 g/l	x	340 g/l			x	340 g/l	x	340 g/l
Navigational Aids		x	340 g/l		550 g/l	x	340 g/l		550 g/l		550 g/l
Pretreatment Wash Primer			780 g/l	x	420 g/l		780 g/l	x	420 g/l		780 g/l
Repair and Maintenance Thermoplastic		x	340 g/l	x	340 g/l		550 g/l		550 g/l		550 g/l
Rubber Camouflage Coatings		x	340 g/l					x	340 g/l	x	340 g/l

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		Performance Standard									
High Solids Epoxy								x	280 g/l		
Pleasure Craft Topcoat								x	650 g/l		
Sealant for Wire Sprayed Aluminum		x	610 g/l	x	610 g/l	x	610 g/l	x	610 g/l	x	610 g/l
Special Marking		x	420 g/l		490 g/l		490 g/l	x	420 g/l		490 g/l
Speciality Interior		x	340 g/l	x	340 g/l			x	340 g/l	x	340 g/l
Tack Coat		x	610 g/l	x	610 g/l	x	610 g/l	x	610 g/l	x	610 g/l
Undersea Weapons Systems Coating											
Baked					275 g/l		275 g/l		275 g/l		
Air Dried			340 g/l	x	340 g/l	x	340 g/l	x	340 g/l		340 g/l
Wood Sealer		x	340 g/l					x	340 g/l		
Zinc Rich		x	340 g/l	x	340 g/l			x	340 g/l	x	340 g/l
Antifoulants for Pleasure Craft								x	330 g/l		

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		Performance Standard									
Extreme High Gloss											
Baked				x	420 g/l	x	420 g/l				
Air Dried					490 g/l		490 g/l				
Metallic Heat Resistant						x	530 g/l				
Elastomeric Adhesives with 15% by weight rubber						x	730 g/l				
Solvent Based Inorganic Zinc						x	650 g/l				
Preconstruction Zinc Primer								x	650 g/l	x	650 g/l
Organic Zinc								x	340 g/l		360 g/l
Primer Surfacer								x	340 g/l		
Radar Exterior Topcoat								x	340 g/l		
Non Skid										x	340 g/l
Nuclear										x	420 g/l

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		Performance Standard									
Control Equipment		x	combined control and capture efficiency must equal 85% by weight	x	total abatement efficiency must be 85%	x	capture and destruction efficiency of 85% by weight	x	combined capture and control efficiency must equal 85% by weight	x	emissions reductions from control device should equal emissions reductions from use of low VOC coatings
Surface Preparation and Clean up solvents			Clean-up solvent partial pressure < 45 mm Hg @ 20 degrees C. Surface preparation solvents must have VOC content < 200 g/l. All VOC containing materials must be stored in closed containers.		store spent solvent and cloth and paper used for solvent preparation and clean-up inclosed containers	X	store spent solvent and cloth and paper used for solvent preparation and clean-up. Solvent must have VOC contents of 70 g/l or less.		solvent used must be < 200 g/l or a boiling point of > 190 degrees C, or vapor pressure of 20 mm Hg @ 20 degrees C, or less.		
Cleaning Equipment		x	enclosed parts washer or approved alternative	x	must use equipment for minimizing evaporative losses to the atmosphere	x	facilities must use wipe cleaning, spray bottles, enclosed cleaning device, or approved clean-up equipment	x	enclosed system, or approved alternative		
Prohibition of Specification		n q	no person shall specify the use of a coating within the district if application of the coating results in a violation of the rule.	n q	no person shall specify the use of a coating within the district if application of the coating results in a violation of the rule.	n q	no person shall specify the use of a coating within the district if application of the coating results in a violation of the rule.	n q	no person shall specify the use of a coating within the district if application of the coating results in a violation of the rule.		
Compliance Statement		n	manufacturer of	n	manufacturer of	n		n	manufacturer shall	n	

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		Performance Standard									
		q	coatings shall label coating container, or MSDS with VOC content	q	coatings shall label coating container, or MSDS with VOC content	q		q	provide information on VOC content	q	
Recordkeeping		n q	- list of coatings and solvents used - mixing ratios - daily records of coatings and solvents used - control equipment operating records monthly records of noncompliant coating and solvent usage	n q	- coatings and solvents used -mixing ratios - VOC content of coatings and solvents used as applied - monthly records of: - daily coatings and solvents used - mix ratios - coating categories for each coating and solvent used -oven temperature	n q	- application method and substrate type  - amount of coating and solvents used  - VOC content of coatings and solvents - vapor pressure of coatings and solvents  - oven temperature	n q	-coatings and solvents used - VOC content of coatings and solvents, and vapor pressure - mixing ratios -monthly records of: - coatings and solvents used - oven temp - dip tank records, if applicable	n q	- total volume of coatings and solvents used - volume of exempts used - coating categories and VOC limits - coating testing results

**Table II**  
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Rule/Measure	Rule/Measure				
	San Diego APCD 67.18	SCAQMD 1106	BAAQMD 8-43	Ventura County APCD 74.24	NESHAP
<b>Exemptions</b>	<ul style="list-style-type: none"> <li>-antifoulant coatings applied to aluminum hulls, outboard motors , lower drive shafts, and aluminum running gear below waterline provided records are maintained to substantiate that the antifoulant coatings are applied to aluminum hull, outboard motors, lower drive shafts, and aluminum running gear.</li> <li>- noncommercial marine coating opeations performed at personal residences for the purpose of coating their own pleasure craft</li> <li>- marine coatings used in volumes less than 20 gal/yr, provided not more than 20 gal/yr of noncompliant coating are used</li> </ul>	<ul style="list-style-type: none"> <li>- marine coatings applied to interior surfaces of potable water containers</li> <li>- marine coatings purchased before January 1, 1992, in containers of quart or less and applied to pleasure craft</li> <li>- antifoulant coatings applied to aluminum hulls</li> </ul>	<ul style="list-style-type: none"> <li>- coating of pleasure craft or fishing vessels using coatings purchaed in contasiners of one gallon or less</li> <li>- VOC limits shall not apply to coatings used in volumes less than 20 gal/yr</li> <li>- antifoulant coating used on aluminum hulls</li> </ul>	<ul style="list-style-type: none"> <li>- VOC limits shall not apply to to any stationary source emitting not more than 200 lsb/yr of VOC</li> <li>- VOC limits shall not apply if noncompliant coaitngs are not available, and total use of noncompliant coatings is less than 55 gal/yr</li> <li>- surface preparation and cleanup solvent requirements shall not apply provided the total volume of of noncompliant solvent use does not exceed 5 gal/yr</li> </ul>	<ul style="list-style-type: none"> <li>- coatings used in volumes of less than 200 liters/yr, provided that the total volume of coating exempt from the rule does not exceed 1,000 liter/yr at any facility</li> </ul>



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	San Diego APCD 67.18	SCAQMD 1106	BAAQMD 8-43	Ventura County APCD 74.24	NESHAP
<b>Applicability</b>	This rule is applicable to marine coating operations including the coating of marine and fresh water vessels, oil drilling platforms, navigational aids and component parts; and structures intended for exposure to marine environment.	This rule applies to all coating operations of boats, ships, and their appurtenances, and to buoys and oil drilling rigs intended for the marine environment.	This rule applies to the surface coating of marine vessels, components and structures intended for exposure to a marine environment, including oil drilling platforms and navigational aids.	The provisions of this rule apply to any person who applies, specifies the use of, or supplies coatings for marine and fresh water vessels, drilling vessels, and navigational aids, and their parts or components, including any parts subjected to unprotected shipboard conditions.	Rule applies to shipbuilding and ship repair operations at any facility that is a major source.
<b>Comments</b>					